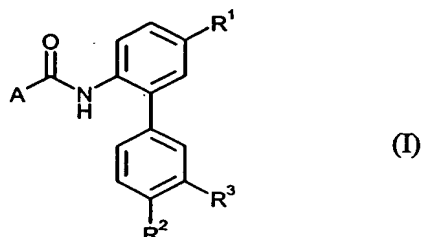


**Patent claims**

1. Synergistic fungicidal active compound combinations comprising a carboxamide of the general formula (I) (group 1)



in which

R<sup>1</sup> represents hydrogen or fluorine,

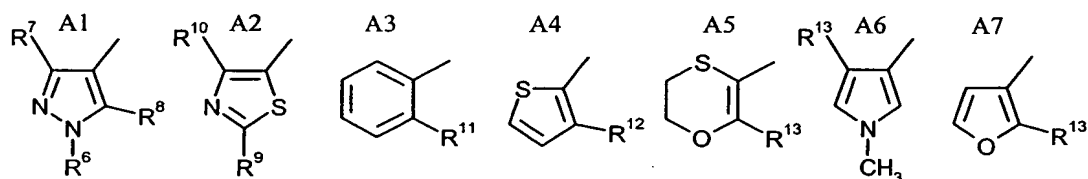
R<sup>2</sup> represents halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl, C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms, C<sub>1</sub>-C<sub>3</sub>-alkoxy, C<sub>1</sub>-C<sub>3</sub>-haloalkoxy having 1 to 7 fluorine, chlorine and/or bromine atoms or represents -C(R<sup>4</sup>)=N-OR<sup>5</sup>,

R<sup>3</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms,

R<sup>4</sup> represents hydrogen or methyl,

R<sup>5</sup> represents C<sub>1</sub>-C<sub>5</sub>-alkyl, C<sub>1</sub>-C<sub>5</sub>-alkenyl or C<sub>1</sub>-C<sub>5</sub>-alkynyl,

A represents one of the radicals A1 to A7 below:



R<sup>6</sup> represents C<sub>1</sub>-C<sub>3</sub>-alkyl,

R<sup>7</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms,

R<sup>8</sup> represents hydrogen, halogen or C<sub>1</sub>-C<sub>3</sub>-alkyl,

R<sup>9</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl, amino, mono- or di(C<sub>1</sub>-C<sub>3</sub>-alkyl)amino,

R<sup>10</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms,

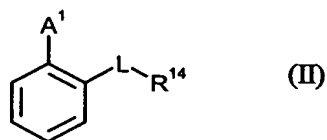
R<sup>11</sup> represents halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms,

R<sup>12</sup> represents halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms,

R<sup>13</sup> represents hydrogen, halogen, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl having 1 to 7 fluorine, chlorine and/or bromine atoms,

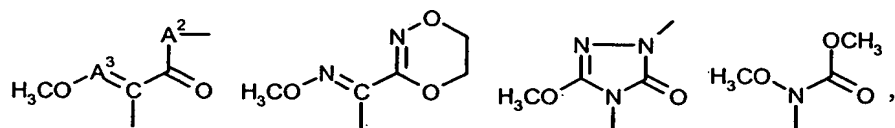
and at least one active compound selected from groups (2) to (23) below:

Group (2) Strobilurins of the general formula (II)



in which

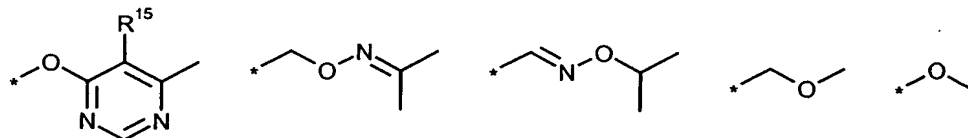
A¹ represents one of the groups



A² represents NH or O,

A³ represents N or CH,

L represents one of the groups

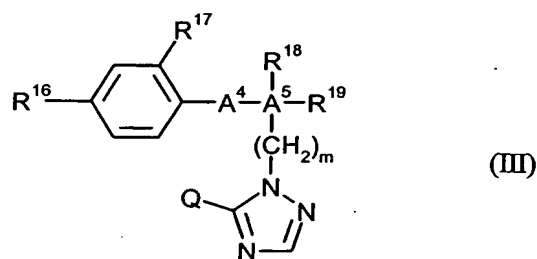


where the bond marked with an asterisk (\*) is attached to the phenyl ring,

R¹⁴ represents phenyl, phenoxy or pyridinyl, each of which is optionally mono- or disubstituted by identical or different substituents from the group consisting of chlorine, cyano, methyl and trifluoromethyl, or represents 1-(4-chlorophenyl)-pyrazol-3-yl or represents 1,2-propanedione-bis(O-methyloxime)-1-yl,

R¹⁵ represents hydrogen or fluorine;

Group (3) Triazoles of the general formula (III)



in which

Q represents hydrogen or SH,

m represents 0 or 1,

R¹⁶ represents hydrogen, fluorine, chlorine, phenyl or 4-chlorophenoxy,

$R^{17}$  represents hydrogen or chlorine,

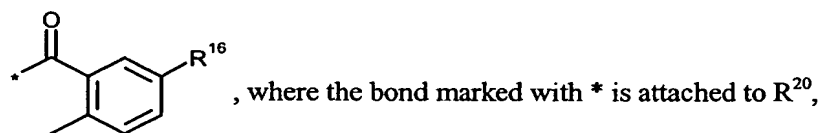
$A^4$  represents a direct bond,  $-CH_2-$ ,  $-(CH_2)_2-$  or  $-O-$ ,

$A^4$  furthermore represents  $^*-CH_2-CH(R^{20})-$  or  $^*-CH=CR^{20}-$  where the bond marked with \* is attached to the phenyl ring, and

5  $R^{18}$  and  $R^{20}$  furthermore together represent  $-CH_2-CH_2-CH[CH(CH_3)_2]-$  or  $-CH_2-CH_2-C(CH_3)_2-$ ,

$A^5$  represents C or Si (silicon),

$A^4$  further represents  $-N(R^{20})-$  and  $A^5$  furthermore together with  $R^{18}$  and  $R^{19}$  represents the group  $C=N-R^{21}$ , in which case  $R^{20}$  and  $R^{21}$  together represent the group



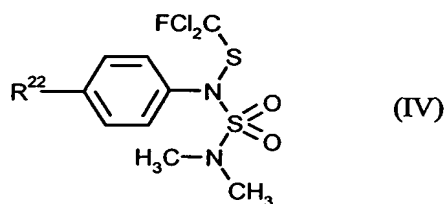
$R^{18}$  represents hydrogen, hydroxyl or cyano,

$R^{19}$  represents 1-cyclopropylethyl, 1-chlorocyclopropyl,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_6$ -hydroxyalkyl,  $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_2$ -haloalkoxy- $C_1$ - $C_2$ -alkyl, trimethylsilyl- $C_1$ - $C_2$ -alkyl, monofluorophenyl or phenyl,

15  $R^{18}$  and  $R^{19}$  furthermore together represent  $-O-CH_2-CH(R^{21})-O-$ ,  $-O-CH_2-CH(R^{21})-CH_2-$ , or  $-O-CH(2\text{-chlorophenyl})-$ ,

$R^{21}$  represents hydrogen,  $C_1$ - $C_4$ -alkyl or bromine;

Group (4) Sulphenamides of the general formula (IV)



in which  $R^{22}$  represents hydrogen or methyl;

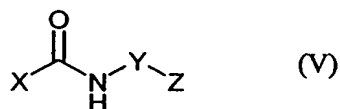
Group (5) Valinamides selected from

(5-1) iprovalicarb

25 (5-2)  $N^1$ -[2-(4-{[3-(4-chlorophenyl)-2-propynyl]oxy}-3-methoxyphenyl)ethyl]- $N^2$ -(methylsulphonyl)-D-valinamide

(5-3) bentiavalicarb

Group (6) Carboxamides of the general formula (V)



in which

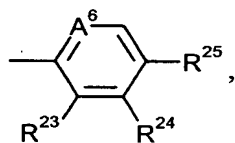
X represents 2-chloro-3-pyridinyl, represents 1-methylpyrazol-4-yl which is substituted in the 3-position by methyl or trifluoromethyl and in the 5-position by hydrogen or chlorine, represents 4-ethyl-2-ethylamino-1,3-thiazol-5-yl, represents 1-methyl-cyclohexyl, represents 2,2-dichloro-1-ethyl-3-methylcyclopropyl, represents 2-fluoro-2-propyl or represents phenyl which is mono- to trisubstituted by identical or different substituents from the group consisting of chlorine and methyl,

X furthermore represents 3,4-dichloroisothiazol-5-yl, 5,6-dihydro-2-methyl-1,4-oxathiazin-3-yl, 4-methyl-1,2,3-thiadiazol-5-yl, 4,5-dimethyl-2-trimethylsilylthiophen-3-yl, 1-methylpyrrol-3-yl which is substituted in the 4-position by methyl or trifluoromethyl and in the 5-position by hydrogen or chlorine,

Y represents a direct bond, C<sub>1</sub>-C<sub>6</sub>-alkanediyl (alkylene) which is optionally substituted by chlorine, cyano or oxo or represents thiophenediyl,

Y furthermore represents C<sub>2</sub>-C<sub>6</sub>-alkenediyl (alkenylene),

Z represents hydrogen or the group



Z furthermore represents C<sub>1</sub>-C<sub>6</sub>-alkyl,

A<sup>6</sup> represents CH or N,

R<sup>23</sup> represents hydrogen, chlorine, phenyl which is optionally mono- or disubstituted by identical or different substituents from the group consisting of chlorine and di(C<sub>1</sub>-C<sub>3</sub>-alkyl)aminocarbonyl,

R<sup>23</sup> furthermore represents cyano or C<sub>1</sub>-C<sub>6</sub>-alkyl,

R<sup>24</sup> represents hydrogen or chlorine,

R<sup>25</sup> represents hydrogen, chlorine, hydroxyl, methyl or trifluoromethyl,

R<sup>25</sup> furthermore represents di(C<sub>1</sub>-C<sub>3</sub>-alkyl)aminocarbonyl,

R<sup>23</sup> and R<sup>24</sup> furthermore together represent \*-CH(CH<sub>3</sub>)-CH<sub>2</sub>-C(CH<sub>3</sub>)<sub>2</sub>- or \*-CH(CH<sub>3</sub>)-O-C(CH<sub>3</sub>)<sub>2</sub>- where the bond marked with \* is attached to R<sup>23</sup>;

Group (7) Dithiocarbamates selected from

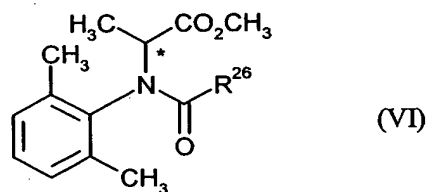
(7-1) mancozeb

(7-2) maneb

- (7-3) metiram  
 (7-4) propineb  
 (7-5) thiram  
 (7-6) zineb  
 (7-7) ziram

5

Group (8): Acylalanines of the general formula (VI)



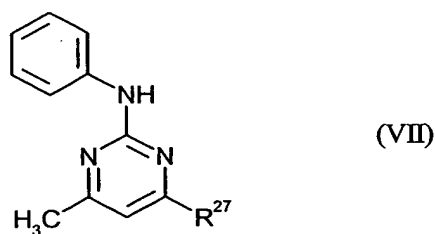
in which

10

\* marks a carbon atom in the R or the S configuration, preferably in the S configuration,

R<sup>26</sup> represents benzyl, furyl or methoxymethyl;

Group (9): Anilinopyrimidines of the general formula (VII)

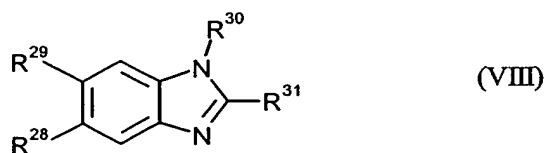


15

in which

R<sup>27</sup> represents methyl, cyclopropyl or 1-propynyl;

Group (10): Benzimidazoles of the general formula (VIII)



20

in which

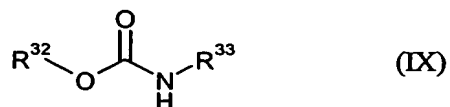
R<sup>28</sup> and R<sup>29</sup> each represent hydrogen or together represent -O-CF<sub>2</sub>-O-,

R<sup>30</sup> represents hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkylaminocarbonyl or represents 3,5-dimethylisoxazol-4-ylsulphonyl,

25

R<sup>31</sup> represents chlorine, methoxycarbonylamino, chlorophenyl, furyl or thiazolyl;

Group (11): Carbamates of the general formula (IX)



in which

$\text{R}^{32}$  represents n- or isopropyl,

$\text{R}^{33}$  represents di( $\text{C}_1$ - $\text{C}_2$ -alkyl)amino- $\text{C}_2$ - $\text{C}_4$ -alkyl or diethoxyphenyl,

5 salts of these compounds also being included;

Group (12): Dicarboximides selected from

(12-1) captafol

(12-2) captan

10 (12-3) folpet

(12-4) iprodione

(12-5) procymidone

(12-6) vinclozolin

15 Group (13): Guanidines selected from

(13-1) dodine

(13-2) guazatine

(13-3) iminoctadine triacetate

(13-4) iminoctadine tris(albesilate)

20

Group (14): Imidazoles selected from

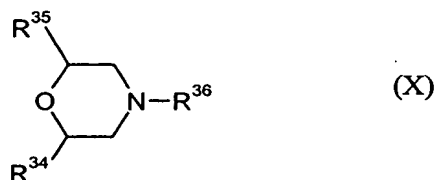
(14-1) cyazofamid

(14-2) prochloraz

(14-3) triazoxide

25 (14-4) pefurazoate

Group (15): Morpholines of the general formula (X)



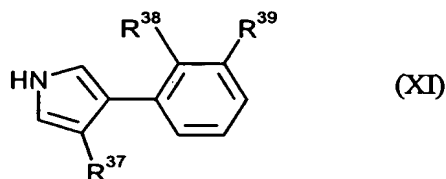
in which

30  $\text{R}^{34}$  and  $\text{R}^{35}$  independently of one another represent hydrogen or methyl,

$\text{R}^{36}$  represents  $\text{C}_1$ - $\text{C}_{14}$ -alkyl (preferably  $\text{C}_{12}$ - $\text{C}_{14}$ -alkyl),  $\text{C}_5$ - $\text{C}_{12}$ -cycloalkyl (preferably

C<sub>10</sub>-C<sub>12</sub>-cycloalkyl), phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, which may be substituted in the phenyl moiety by halogen or C<sub>1</sub>-C<sub>4</sub>-alkyl or represents acrylyl which is substituted by chlorophenyl and dimethoxyphenyl;

5 Group (16): Pyrroles of the general formula (XI)



in which

R<sup>37</sup> represents chlorine or cyano,

R<sup>38</sup> represents chlorine or nitro,

R<sup>39</sup> represents chlorine,

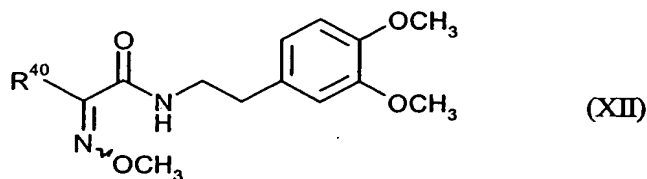
R<sup>38</sup> and R<sup>39</sup> furthermore together represent -O-CF<sub>2</sub>-O-;

Group (17): Phosphonates selected from

(17-1) fosetyl-Al

(17-2) phosphonic acid

Group (18): Phenylethanamides of the general formula (XII)



in which

R<sup>40</sup> represents unsubstituted or fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted phenyl, 2-naphthyl, 1,2,3,4-tetrahydronaphthyl or indanyl;

Group (19): Fungicides selected from

(19-1) acibenzolar-S-methyl

(19-2) chlorothalonil

(19-3) cymoxanil

(19-4) edifenphos

(19-5) famoxadone

(19-6) fluazinam

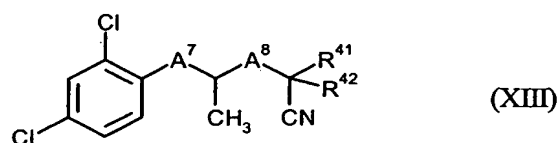
(19-7) copper oxychloride

- ( )
- 5 (19-8) copper hydroxide  
 (19-9) oxadixyl  
 (19-10) spiroxamine  
 (19-11) dithianon  
 (19-12) metrafenone  
 (19-13) fenamidone  
 (19-14) 2,3-dibutyl-6-chlorothieno[2,3-d]pyrimidin-4(3H)-one  
 (19-15) probenazole  
 (19-16) isoprothiolane  
 10 (19-17) kasugamycin  
 (19-18) phthalide  
 (19-19) ferimzone  
 (19-20) tricyclazole  
 (19-21) N-({4-[(cyclopropylamino)carbonyl]phenyl}sulphonyl)-2-methoxybenzamide  
 15 (19-22) 2-(4-chlorophenyl)-N-{2-[3-methoxy-4-(prop-2-yn-1-yloxy)phenyl]ethyl}-2-(prop-2-yn-1-yloxy)acetamide

Group (20): (Thio)urea derivatives selected from

- ( )
- 20 (20-1) pencycuron  
 (20-2) thiophanate-methyl  
 (20-3) thiophanate-ethyl

Group (21): Amides of the general formula (XIII)

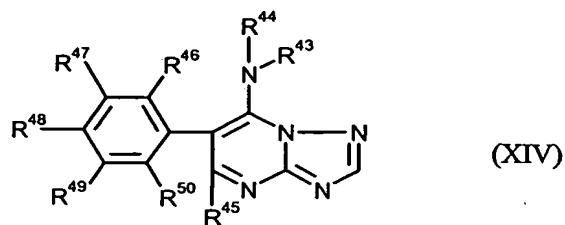


- 25 in which
- $A^7$  represents a direct bond or -O-,  
 $A^8$  represents -C(=O)NH- or -NHC(=O)-,  
 $R^{41}$  represents hydrogen or  $C_1$ - $C_4$ -alkyl,  
 $R^{42}$  represents  $C_1$ - $C_6$ -alkyl;

30

Group (22): Triazolopyrimidines of the general formula (XIV)





in which

$R^{43}$  represents  $C_1$ - $C_6$ -alkyl or  $C_2$ - $C_6$ -alkenyl,

$R^{44}$  represents  $C_1$ - $C_6$ -alkyl,

5  $R^{43}$  and  $R^{44}$  furthermore together represent  $C_4$ - $C_5$ -alkanediyl (alkylene) which is mono- or disubstituted by  $C_1$ - $C_6$ -alkyl,

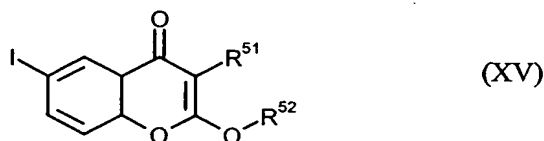
$R^{45}$  represents bromine or chlorine,

$R^{46}$  and  $R^{50}$  independently of one another represent hydrogen, fluorine, chlorine or methyl,

$R^{47}$  and  $R^{49}$  independently of one another represent hydrogen or fluorine,

10  $R^{48}$  represents hydrogen, fluorine or methyl,

Group (23): Iodochromones of the general formula (XV)



in which

15  $R^{51}$  represents  $C_1$ - $C_6$ -alkyl,

$R^{52}$  represents  $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_6$ -alkenyl or  $C_2$ - $C_6$ -alkynyl.

2. Active compound combinations according to Claim 1 comprising a carboxamide of the general formula (I) according to Claim 1 (group 1) in which

20  $R^1$  represents hydrogen or fluorine,

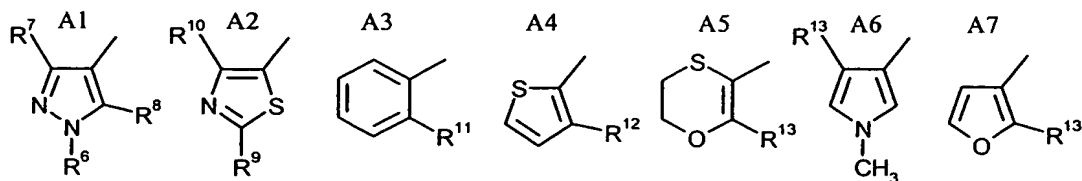
$R^2$  represents fluorine, chlorine, bromine, iodine, methyl, trifluoromethyl, trifluoromethoxy or represents  $-C(R^4)=N-OR^5$ ,

$R^3$  represents hydrogen, fluorine, chlorine, bromine, methyl or trifluoromethyl,

$R^4$  represents hydrogen or methyl,

25  $R^5$  represents  $C_1$ - $C_5$ -alkyl,

A represents one of the radicals A1 to A7 below:



- $R^6$  represents methyl,  
 $R^7$  represents iodine, methyl, difluoromethyl or trifluoromethyl,  
 $R^8$  represents hydrogen, fluorine, chlorine or methyl,  
 $R^9$  represents hydrogen, chlorine, methyl, amino or dimethylamino,  
 $R^{10}$  represents methyl, difluoromethyl or trifluoromethyl,  
 $R^{11}$  represents chlorine, bromine, iodine, methyl, difluoromethyl or trifluoromethyl,  
 $R^{12}$  represents bromine or methyl,  
 $R^{13}$  represents methyl or trifluoromethyl.
3. Active compound combinations according to Claim 1, where the active compounds of groups (2) to (23) are selected from the list below:
- (2-1) azoxystrobin  
 (2-2) fluoxastrobin  
 (2-3) (2*E*)-2-(2-{{[6-(3-chloro-2-methylphenoxy)-5-fluoro-4-pyrimidinyl]oxy}phenyl}-2-(methoxyimino)-*N*-methylethanamide  
 (2-4) trifloxystrobin  
 (2-5) (2*E*)-2-(methoxyimino)-*N*-methyl-2-(2-{{{(1*E*)-1-[3-(trifluoromethyl)phenyl]ethyliden}amino)oxy}methyl}phenyl)ethanamide  
 (2-6) (2*E*)-2-(methoxyimino)-*N*-methyl-2-{2-[(*E*)-{1-[3-(trifluoromethyl)phenyl]ethoxy}imino)methyl]phenyl}ethanamide  
 (2-7) orysastrobin  
 (2-8) 5-methoxy-2-methyl-4-(2-{{{(1*E*)-1-[3-(trifluoromethyl)phenyl]ethyliden}amino)oxy}methyl}phenyl)-2,4-dihydro-3*H*-1,2,4-triazol-3-one  
 (2-9) kresoxim-methyl  
 (2-10) dimoxystrobin  
 (2-11) picoxystrobin  
 (2-12) pyraclostrobin  
 (2-13) metominostrobin  
 (3-1) azaconazole  
 (3-2) etaconazole  
 (3-3) propiconazole  
 (3-4) difenoconazole  
 (3-5) bromuconazole  
 (3-6) cyproconazole  
 (3-7) hexaconazole  
 (3-8) penconazole

	(3-9)	myclobutanil
	(3-10)	tetraconazole
	(3-11)	flutriafol
	(3-12)	epoxiconazole
5	(3-13)	flusilazole
	(3-14)	simeconazole
	(3-15)	prothioconazole
	(3-16)	fenbuconazole
	(3-17)	tebuconazole
10	(3-18)	ipconazole
	(3-19)	metconazole
	(3-20)	triticonazole
	(3-21)	bitertanol
	(3-22)	triadimenol
15	(3-23)	triadimefon
	(3-24)	fluquinconazole
	(3-25)	quinconazole
	(4-1)	dichlofluanid
	(4-2)	tolyfluanid
20	(5-1)	iprovalicarb
	(5-3)	benthiavalicarb
	(6-1)	2-chloro-N-(1,1,3-trimethylindan-4-yl)nicotinamide
	(6-2)	boscalid
	(6-3)	furametpyr
25	(6-4)	N-(3-p-tolylthiophen-2-yl)-1-methyl-3-trifluoromethyl-1H-pyrazole-4-carboxamide
	(6-5)	ethaboxam
	(6-6)	fenhexamid
	(6-7)	carpropamid
	(6-8)	2-chloro-4-(2-fluoro-2-methylpropionylamino)-N,N-dimethylbenzamide
30	(6-9)	picobenzamid
	(6-10)	zoxamide
	(6-11)	3,4-dichloro-N-(2-cyanophenyl)isothiazole-5-carboxamide
	(6-12)	carboxin
	(6-13)	tiadinil
35	(6-14)	penthiopyrad
	(6-15)	silthiofam

- (6-16) *N*-[2-(1,3-dimethylbutyl)phenyl]-1-methyl-4-(trifluoromethyl)-1*H*-pyrrole-3-carboxamide
- (7-1) mancozeb
- (7-2) maneb
- 5 (7-3) metiram
- (7-4) propineb
- (7-5) thiram
- (7-6) zineb
- (7-7) ziram
- 10 (8-1) benalaxyl
- (8-2) furalaxyl
- (8-3) metalaxyl
- (8-4) metalaxyl-M
- (8-5) benalaxyl-M
- 15 (9-1) cyprodinil
- (9-2) mepanipyrim
- (9-3) pyrimethanil
- (10-1) 6-chloro-5-[(3,5-dimethylisoxazol-4-yl)sulphonyl]-2,2-difluoro-5*H*-[1,3]dioxolo[4,5-*f*]benzimidazole
- 20 (10-2) benomyl
- (10-3) carbendazim
- (10-4) chlorfenazole
- (10-5) fuberidazole
- (10-6) thiabendazole
- (11-1) diethofencarb
- 25 (11-2) propamocarb
- (11-3) propamocarb-hydrochloride
- (11-4) propamocarb-fosetyl
- (12-1) captafol
- 30 (12-2) captan
- (12-3) folpet
- (12-4) iprodione
- (12-5) procymidone
- (12-6) vinclozolin
- 35 (13-1) dodine
- (13-2) guazatine

- ( )
- 5 (13-3) iminocladine triacetate  
 (14-1) cyazofamid  
 (14-2) prochloraz  
 (14-3) triazoxide  
 (14-4) pefurazoate  
 (15-1) aldimorph  
 (15-2) tridemorph  
 (15-3) dodemorph  
 (15-4) fenpropimorph
- 10 (15-5) dimethomorph  
 (16-1) fenpiclonil  
 (16-2) fludioxonil  
 (16-3) pyrrolnitrin  
 (17-1) fosetyl-Al
- 15 (17-2) phosphonic acid  
 (18-1) 2-(2,3-dihydro-1H-inden-5-yl)-N-[2-(3,4-dimethoxyphenyl)ethyl]-2-(methoxyimino)-acetamide  
 (18-2) N-[2-(3,4-dimethoxyphenyl)ethyl]-2-(methoxyimino)-2-(5,6,7,8-tetrahydronaphthalen-2-yl)acetamide
- 20 (18-3) 2-(4-chlorophenyl)-N-[2-(3,4-dimethoxyphenyl)ethyl]-2-(methoxyimino)acetamide  
 (18-4) 2-(4-bromophenyl)-N-[2-(3,4-dimethoxyphenyl)ethyl]-2-(methoxyimino)acetamide  
 (18-5) 2-(4-methylphenyl)-N-[2-(3,4-dimethoxyphenyl)ethyl]-2-(methoxyimino)acetamide  
 (18-6) 2-(4-ethylphenyl)-N-[2-(3,4-dimethoxyphenyl)ethyl]-2-(methoxyimino)acetamide
- ( )
- 25 (19-1) acibenzolar-S-methyl  
 (19-2) chlorothalonil  
 (19-3) cymoxanil  
 (19-4) edifenphos  
 (19-5) famoxadone  
 (19-6) fluazinam
- 30 (19-7) copper oxychloride  
 (19-9) oxadixyl  
 (19-10) spiromamine  
 (19-11) dithianon  
 (19-12) metrafenone
- 35 (19-13) fenamidone  
 (19-14) 2,3-dibutyl-6-chlorothieno[2,3-d]pyrimidin-4(3H)-one

- (19-15) probenazole  
 (19-16) isoprothiolane  
 (19-17) kasugamycin  
 (19-18) phthalide  
 5 (19-19) ferimzone  
 (19-20) tricyclazole  
 (19-21) N-({4-[(cyclopropylamino)carbonyl]phenyl}sulphonyl)-2-methoxybenzamide  
 (19-22) 2-(4-chlorophenyl)-N-{2-[3-methoxy-4-(prop-2-yn-1-yloxy)phenyl]ethyl}-2-(prop-2-yn-1-yloxy)acetamide  
 10 (20-1) pencycuron  
 (20-2) thiophanate-methyl  
 (20-3) thiophanate-ethyl  
 (21-1) fenoxanil  
 (21-2) diclocymet  
 15 (22-1) 5-chloro-*N*-[(*IS*)-2,2,2-trifluoro-1-methylethyl]-6-(2,4,6-trifluorophenyl)[1,2,4]triazolo[1,5-*a*]pyrimidine-7-amine  
 (22-2) 5-chloro-*N*-[(*IR*)-1,2-dimethylpropyl]-6-(2,4,6-trifluorophenyl)[1,2,4]triazolo[1,5-*a*]pyrimidine-7-amine  
 (22-3) 5-chloro-6-(2-chloro-6-fluorophenyl)-7-(4-methylpiperidin-1-yl)[1,2,4]triazolo[1,5-*a*]pyrimidine  
 20 (22-4) 5-chloro-6-(2,4,6-trifluorophenyl)-7-(4-methylpiperidin-1-yl)[1,2,4]triazolo[1,5-*a*]pyrimidine  
 (23-1) 2-butoxy-6-iodo-3-propylbenzopyran-4-one  
 (23-2) 2-ethoxy-6-iodo-3-propylbenzopyran-4-one  
 25 (23-3) 6-iodo-2-propoxy-3-propylbenzopyran-4-one  
 (23-4) 2-but-2-ynyloxy-6-iodo-3-propylbenzopyran-4-one  
 (23-5) 6-iodo-2-(1-methylbutoxy)-3-propylbenzopyran-4-one  
 (23-6) 2-but-3-enyloxy-6-iodobenzopyran-4-one  
 (23-7) 3-butyl-6-iodo-2-isopropoxybenzopyran-4-one.  
 30
4. Active compound combinations according to Claim 1 comprising the carboxamide (1-1) *N*-(3',4'-dichloro-5-fluoro-1,1'-biphenyl-2-yl)-3-(difluoromethyl)-1-methyl-1*H*-pyrazole-4-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 1.  
 35
5. Active compound combinations according to Claim 1 comprising the carboxamide (1-1)

*N*-(3',4'-dichloro-5-fluoro-1,1'-biphenyl-2-yl)-3-(difluoromethyl)-1-methyl-1*H*-pyrazole-4-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 3.

- 5     6.     Active compound combinations according to Claim 1 comprising the carboxamide (1-7) *N*-(4'-bromo-1,1'-biphenyl-2-yl)-4-(difluoromethyl)-2-methyl-1,3-thiazole-5-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 1.
- 10    7.     Active compound combinations according to Claim 1 comprising the carboxamide (1-7) *N*-(4'-bromo-1,1'-biphenyl-2-yl)-4-(difluoromethyl)-2-methyl-1,3-thiazole-5-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 3.
- 15    8.     Active compound combinations according to Claim 1 comprising the carboxamide (1-8) 4-(difluoromethyl)-2-methyl-*N*-[4'-(trifluoromethyl)-1,1'-biphenyl-2-yl]-1,3-thiazole-5-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 1.
- 20    9.     Active compound combinations according to Claim 1 comprising the carboxamide (1-8) 4-(difluoromethyl)-2-methyl-*N*-[4'-(trifluoromethyl)-1,1'-biphenyl-2-yl]-1,3-thiazole-5-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 3.
- 25    10.    Active compound combinations according to Claim 1 comprising the carboxamide (1-9) *N*-(4'-chloro-3'-fluoro-1,1'-biphenyl-2-yl)-4-(difluoromethyl)-2-methyl-1,3-thiazole-5-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 1.
- 30    11.    Active compound combinations according to Claim 1 comprising the carboxamide (1-9) *N*-(4'-chloro-3'-fluoro-1,1'-biphenyl-2-yl)-4-(difluoromethyl)-2-methyl-1,3-thiazole-5-carboxamide (group 1) and at least one active compound selected from the following groups (2) to (23) according to Claim 3.
- 35    12.    Use of active compound combinations according to Claim 1 for controlling unwanted phytopathogenic fungi.

13. Method for controlling unwanted phytopathogenic fungi, characterized in that active compound combinations according to Claim 1 are applied to the unwanted phytopathogenic fungi and/or their habitat.

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14. Process for preparing fungicidal compositions, characterized in that active compound combinations according to Claim 1 are mixed with extenders and/or surfactants.